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POPULATION INDEX

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CURRENT ITEMS

PRELIMINARY ANALYSIS OF RECENT DEMOGRAPHIC TRENDS IN ITALY

The years which preceded World War II produced a wide variety of demographic studies in Italy. The censuses of 1931 and 1936, together with detailed and reliable vital statistics, provided students with material that permitted a thorough analysis of population characteristics and changes and enabled them to elaborate methodological devices which made a substantial contribution to demography.

In recent years the situation has been completely different. Studies of the demographic situation in Italy have been rare and necessarily limited to general description of over-all characteristics. Up-to-date materials for the analysis of demographic developments have been lacking. For various reasons it was not possible immediately after the war to take the census of population which, in accordance with the rule introduced at the 1936 census, should have been taken in 1946. It was only in November, 1951, that the census was finally taken and evidently it will be some time before the detailed results are available.

The publication of vital statistics was interrupted after 1940. In the course of the war Italy was split into two parts and the dividing line between the Allied and the German forces moved northward from time to time. In this period the offices of the Istituto Centrale di Statistica were transferred to North Italy. For some time many of the local registration authorities were unable to send to the central office the data on births, deaths, and marriages which they were currently collecting. A part of this documentation was lost with the destruction of some local offices[a]. Only recently after a long and careful searching and checking of wartime records has the Istituto Centrale di Statistica managed to complete the publication of vital statistics up to 1948. The volume containing data for 1949 is in course of publication.

In two or three years, when the detailed results of the recent census are available and the publication of vital statistics has fully caught up, students of the demographic situation of Italy will have at their disposal a mass of data of great variety and reliability with several historical series of detailed tabulations (e.g., the classification of legitimate births by year of marriage and parity has been available since 1930).

The purpose of this note is to sketch the present demographic situation in Italy so far as the data now available permit. For some aspects (for example, legitimate fertility) it is possible to make a fairly satisfactory analysis; for others (such as nuptiality) it will be necessary to wait for the census materials before a detailed picture can be drawn. This note will necessarily lack balance in the distribution of space between subjects and the discussion will have a preliminary character.

Population Growth and Natural Increase

The de facto population enumerated at the census of November 4, 1951, was 46.738 million. The difference between this figure and the last estimate published prior to the census (46.672 million for October

Table 1

Population Growth in Italy: 1901-1952/1
(De facto population in present area)

Census Date	Total Population (in thousands)	Annual Rate of Increase (per thousand)
February 10, 1901	33,172	6.8/a
June 10, 1911	35,442	6.4
December 1, 1921	37,143	4.5
April 21, 1931	40,310	8.7
April 21, 1936	42,025/b	8.4
November 4, 1951	46,738	6.9
February 29, 1952/c	46,793	

a/ During the period December 31, 1881-February 10, 1901.
b/ Special de facto population, including members of the armed forces and civilians following the armed forces in East Africa, in colonies, and possessions (465 thousand).
c/ Last available estimate.

1/ Source: Annuario Statistico Italiano, 1951, and Bollettino Mensile di Statistica, April 1952.

31, 1951) is very slight. Meteorological conditions interfered with the taking of the census; in 41 communes in the province of Rovigo and in the commune of Cavarzere in the province of Venezia the census operations had to be interrupted owing to floods. Nevertheless the census was generally carried out with completeness and accuracy. The amount of underenumeration is presumably insignificant.

At the same date the de jure population, which relates to habitual residents including those temporarily absent, was 47.021 million. In a territory of 116,228 square miles, 47 millions correspond to a density of 404 per square mile compared with 285 in February, 1901, within the same boundaries.

In fifty years the population within the present boundaries increased by about 41 per cent. The stages in this increase are shown in Table 1, which gives the de facto population of the present territory at each census since 1901; the table also shows the annual rate of growth in each intercensal period (calculated by the compound interest formula). Heavy emigration and World War I contributed to the maintenance of a relatively low rate of growth in the first two decades. The second world conflict seems not to have had so decisive an influence as the first. The reduction in the number of births was less noticeable and deaths caused by the war were probably less than half of those during the war of 1915-1918. The outward balance of migration in recent years has not assumed significant proportions.

Table 2 presents an over-all picture of the customary crude vital rates since the beginning of the century. Its purpose is to provide a

Table 2

Crude Vital Rates in Italy: 1901-1951 a/ 1/

Period	Rates per 1,000 Population			Infant Mortality
	Marriages	Births	Deaths	
1900-1905	7.4	32.7	22.0	167
1906-1910	7.9	32.7	21.2	155
1911-1915	6.9	31.5	19.7	140
1916-1920	6.4	23.0	24.4	152
1921-1925	9.0	29.8	17.4	127
1926-1930	7.3	26.8	16.0	119
1931-1935	6.8	23.8	14.1	105
1936-1940	7.6	23.3	13.9	103
1941-1945 a/				
1946-1950	8.6	21.5	10.9	77
1936	7.4	22.4	13.8	100
1937	8.7	22.9	14.3	109
1938	7.5	23.8	14.1	106
1939	7.3	23.6	13.4	97
1940	7.1	23.5	13.6 b/	103
1941	6.1	20.9	13.9 b/	115
1942	6.4	20.5	14.3 b/	112
1943	4.8	19.9	15.2 b/	115
1944	4.8	18.3	15.3 b/	103
1945	6.9	18.3	13.6 b/	103
1946	9.2	23.0	12.1	87
1947	9.7	22.3	11.5	84
1948	8.4	22.0	10.6	72
1949	7.8	20.4	10.5	74
1950	7.7	19.6	9.8	64
1951	6.9	18.1	10.3	67

a/ Data refer to territory as follows: up to 1920, boundaries prior to World War I; 1921-1942, boundaries prior to World War II; beginning 1943, boundaries established by the peace treaty of 1947.

For 1943-1945 it was not possible to obtain data from the localities whose records were destroyed during the war. Therefore, and owing to the boundary changes, no averages for 1941-1945 are shown.

b/ Excluding deaths in military zones of operation and on foreign soil.

1/ Source: See Table 1.

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historical background for the more recent period. (The first three series are shown for the entire period of registration on the front cover of this issue of the Index.) These series illustrate the constant decline in the frequencies of births and of deaths—a decline that has been maintained throughout the period apart from the oscillations which can easily be explained by the effect of the two wars. In particular the table brings out the reduction in birth, death, and infant mortality rates between the prewar period and recent years.

Fertility

In Italy the percentage of illegitimate births among all births is very low; since the Second World War it has always been well below four per cent. Thus a study of fertility in the recent past can safely concentrate on legitimate fertility.

Since 1930 the Istituto Centrale di Statistica has published every year a tabulation of legitimate births (including stillbirths) by year of marriage and parity. With such data the births of each parity can be related to the original number of marriages, and it is possible to follow a marriage cohort through the childbearing period. By dividing the births in a year resulting from marriages of a certain duration by the original number of marriages contracted by the relevant cohort one obtains a set of measures of current fertility specific by marriage duration [b]. By adding the rates computed for all marriage durations from the births occurring in a given year one obtains a synthetic measure of the fertility of that year independent of the year-by-year variations in the number of marriages contracted in the past, or, put in another way, unaffected by changes in the mean duration of existing marriages. Such measures of current fertility are approximate because they are based on the initial number of marriages and not on those remaining in the relevant year. The year-by-year variations in these measures are also affected by changes in the rates of dissolution of marriage, by whatever cause, and the migration of married persons. There is, however, no reason to believe that for Italy in the period which is here considered these factors have a significant influence on any conclusions drawn from the data.

These measures of fertility are in effect largely standardized also by age since the mean age at which marriages have been contracted in successive years has remained fairly stable. It is in any case difficult to believe that variations in the age at marriage such as usually occur (of the order of one or two years at most) imply appreciable changes in attitudes regarding fertility.

Table 3 shows for each year from 1930 to 1951 the sum of duration-specific fertility rates obtained as described above. For ease of comparison, indices (taking 1936-1940 as the base period) are also given [c].

The number of births when corrected for fluctuations in the number of marriages was approximately constant in the ten years preceding the war. (The births of 1940 were conceived before Italy's entry into the war.) The slight decline in 1936-1938 can be explained in part by the absence of a limited number of married civilians and members of the armed forces in East Africa and Spain. The five years of World War II witnessed a reduction of about 10 per cent. In contrast the same measures of fertility in other Western countries either remained constant or increased during the war years as a whole. In general, in these countries fertility was very low during the 1930's and the higher fertility during the war years has been interpreted as a making up for the earlier low rates.

The higher fertility in Italy in 1946 can be attributed in part to a making up of postponed births. Presumably the making up was still going on in 1947. Yet it was not sufficient to maintain the corrected fertility rate at its prewar level. Since 1947 there has been a rapid and continuous decline. In 1951 fertility fell to the lowest level yet record-

Table 3

Trends in Net Legitimate Fertility in Italy: 1930-1951

(1930-1942, prewar area; 1943-1951, area established by the peace treaty of 1947)

Year	Births per 1,000 Original Marriages /a	Index Number (1936-40 = 100)
1930	3,609	111
1931	3,378	104
1932	3,293	101
1933	3,331	102
1934	3,297	101
1935	3,288	101
1936	3,186	98
1937	3,230	99
1938	3,219	99
1939	3,304	102
1940	3,315	102
1941	2,985	92
1942	3,010	93
1943	2,977	92
1944	2,850	88
1945	2,893	89
1946	3,533	109
1947	3,225	99
1948	3,088	95
1949	2,845	88
1950	2,741	84
1951/b	(2,530)	(78)

a/ Sum of over-all durations of legitimate specific fertility rates (stillbirths included) by calendar year of marriage. The rates are calculated on the basis of the original number of marriages in the appropriate cohort, and not on that of marriages surviving to the year of record within the national boundaries.

b/ See text.

ed in Italy. If in that year the fertility rates of 1950 for each duration of marriage had been maintained, there would have been 914,430 legitimate births (including stillbirths) or about 885,000 legitimate live births. In fact there were only about 815,500. Applying a corresponding factor to the corrected number of births for 1950 shown in Table 3, we obtain for 1951 a corrected number of births (including stillbirths) of about 2,530 per thousand original marriages. This figure is presented in Table 3 in parentheses. We shall come back later to this measure.

It may be of interest to examine more closely some features of the recent changes in the childbearing habits of Italian marriages. For this purpose Tables 4-6, which are representative of a general trend, have been prepared. Table 4 shows how the distribution of the correct-

Table 4

Distribution by Order of Birth of the Net Number of Births Shown in Table 3: Italy, 1930, 1940, 1950

(Area as of date)

Birth Order	Number of Births			Per Cent of Total		
	1930	1940	1950	1930	1940	1950
1	872	881	843	24.2	26.6	30.8
2	716	712	650	19.8	21.5	23.7
3	555	519	444	15.4	15.7	16.2
4	422	377	281	11.7	11.4	10.3
5	320	269	175	8.9	8.1	6.4
6+	724	557	348	20.1	16.8	12.7
Total	3,609	3,315	2,741	100.1	100.1	100.1

Table 5

Duration of Marriage at Confinement for the Net Number of Births Shown in Table 3: Italy, 1930, 1940, 1950

(Area as of date)

Birth Order	Marriage Duration at Confinement (Years)			Ratios		
	1930	1940	1950	1940/30	1950/40	1950/30
1	1.39	1.56	1.58	112	101	114
2	3.93	4.42	4.74	112	107	121
3	6.38	7.05	7.56	111	107	118
4	8.78	9.34	9.83	106	105	112
5	10.92	11.38	12.11	104	106	111

Table 6

Distribution by Marriage Duration of the Net Number of Births Shown in Table 3: Italy, 1930, 1940, 1950

(Area as of date)

Marriage Duration at Confinement (Years)	Number of Births			Per Cent of Total		
	1930	1940	1950	1930	1940	1950
0-5	1,532	1,418	1,271	42.4	42.8	46.4
5-10	978	895	716	27.1	27.0	26.1
10-15	588	580	416	16.3	17.5	15.2
15-20	352	316	236	9.8	9.5	8.6
20+	159	106	102	4.4	3.2	3.7
Total	3,609	3,315	2,741	100.0	100.0	100.0

Table 7

Trends in Cumulated Net Legitimate Fertility by Marriage Cohorts: Italy, 1930-1946 /a

Calendar Year of Marriage	Births per 1,000 Original Marriages up to ... Years of Marriage Duration		
	5	10	15
	A. Number of births		
1930	1,448	2,337	2,894
1931	1,444	2,331	2,864
1932	1,448	2,340	2,879
1933	1,434	2,304	2,827
1934	1,424	2,273	2,776
1935	1,412	2,220	2,732
1936	1,415	2,173	2,678
1937	1,377	2,130	
1938	1,338	2,106	
1939	1,283	2,082	
1940	1,243	2,078	
1941	1,188	2,016	
1942	1,276		
1943	1,349		
1944	1,488		
1945	1,369		
1946	1,333		
	B. Index Numbers (1930 = 100)		
1930	100	100	100
1931	100	100	99
1932	100	100	99
1933	99	99	98
1934	98	97	96
1935	98	95	94
1936	98	93	93
1937	95	91	
1938	92	90	
1939	89	89	
1940	86	89	
1941	82	86	
1942	88		
1943	93		
1944	103		
1945	95		
1946	92		

a/ For area coverage, see text, page 272.

ed number of births by parity has changed. It must be remembered that this distribution reflects not only the behavior of married couples during the year in question but also the distribution of couples by number of children already born at the beginning of the year. However, there can be no doubt that the decrease between 1930 and 1950 would appear more pronounced for the high orders of births (say fifth and higher) than

for births of low order. More detailed calculations show that for married couples surviving after a given duration of marriage and with a given number of children already born fertility has declined.

In 1950 there were fewer births than in 1940, and in 1940 fewer than in 1930. The births of a given parity (at least up to and including fifth births) occurred at increasing intervals after marriage as shown in Table 5. This increase is a clear indication that for lower orders of birth the rate of childbearing for the same fraction of marriage has been reduced.

The distribution of fertility between various periods of marriage has changed in the last ten years (see Table 6). There is now a greater concentration of fertility in the earlier years of marriage as a result of the greater reduction in the number of births of high parity.

By adding up successively the rates relating to a given cohort of marriages and calculated for successive calendar years (and therefore for successive annual classes of marriage duration) one obtains a measure of the cumulated fertility of that cohort since the marriage up to the highest marriage duration whose rate is included in the sum. These cumulated numbers of births are given in Table 7 for the cohorts of 1930-1946 and for marriage durations up to 5, 10, and 15 years. Index numbers are also given; the base used was the number of children to marriages of 1930 since their marriage and up to the given duration. In reading this table it must be kept in mind that the basic yearly rates since 1943 relate to the present territory and the previous ones to the territory within the prewar boundaries. The fertility of population of the lost provinces of Venezia Giulia, which account for almost the total difference, was lower than the national average. Therefore there is some bias in those figures in Table 7 which include the experience of years following 1942; these figures may be somewhat inflated in comparison with the corresponding figures relating to the old boundaries.

In any case, the pattern shown by the indexes of Section B of the table is clear enough and indicates a constant decline in cumulated fertility, at least for the cohorts whose childbearing behavior can be followed for ten or more calendar years. The same trend is apparent in the shortest marriage duration until the cohort of 1941. In looking for an explanation for the higher fertility of the succeeding cohorts during their first five years of marital life one should keep in mind the fact that the cohorts of 1942-1946 included a percentage of young brides (say under 25) notably higher than in 1938-1941. The case of the cohort of 1944 is, in this respect, quite an exceptional one for the recent past.

Mortality

The decline in fertility during the more recent years has been very rapid; so has the decline in mortality, as is shown roughly by the crude rates in Table 2.

During the recent war period, apart from war casualties, Italy, unlike various Western countries, did not show an improvement in mortality rates; in fact, at least in some years, mortality was above the level reached in the prewar period. In contrast, in the more recent years specific mortality rates show a sharp continuing decline. In order to present a fairly complete and synthetic feature of the level now

Table 8

Survivorship Figures from an Abridged Life Table, 1949-1950, and from the Last Official Table, 1935-1937: Italy, Female Population /1

(Area as of date)

Exact Age	Number Surviving to Exact Age x Out of 100,000 Born Alive	
	1949-1950	1935-1937
0	100,000	100,000
1	93,431	90,379
2	92,206	87,207
5	91,391	85,365
10	90,949	84,391
15	90,595	83,678
20	90,067	82,514
25	89,390	81,034
30	88,611	79,480
35	87,694	77,872
40	86,652	76,107
45	85,293	74,103
50	83,452	71,699
55	80,841	68,534
60	77,077	64,086
65	71,201	57,589

1/ Sources: 1949-1950, computed from unpublished data furnished by the Istituto Centrale di Statistica; 1935-1937, Tavole di mortalità della popolazione femminile italiana, 1935-1937. Roma, Istituto Centrale di Statistica, 1941.

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reached in the control of mortality, an abridged life table has been constructed for the most recent period for which data were available. From unpublished material kindly submitted by the Istituto Centrale di Statistica, the following data were at our disposal: (a) the distribution of the deaths by age and sex, in annual or quinquennial age groups for 1949 and 1950; (b) the distribution of the population, December 31, 1949, by age and sex, at least by quinquennial age groups up to the group of 60-65 years of age; after 65 the data were not subdivided. The most recent official mortality table available is the one relating to females and to the period 1935-1937. No mortality table was constructed for that period for males. For this reason, and owing to the fact that probably the female age distribution of the December 31, 1949, de facto population is more reliable than the contemporary male age distribution, it seemed advisable to construct the abridged life table for only the female experience.

The method followed for this purpose is the one suggested by Reed and Merrell [d]. For the age groups 0-1 and 1-2 the generalized formula was used instead of the tables suggested by these authors, owing to the fact that no adjustment for under-registration was needed in the case of Italy.

Table 8 shows the l_x column for the official table of 1935-1937

and for the abridged table of 1949-1950. Any comparison between the two different mortality experiences can be only approximate, for various reasons: (a) on December 31, 1949, almost fourteen years had elapsed since the last census; (b) the abridged life table refers to population and deaths recorded within the present boundaries, the official life table of 1935-1937 is for the prewar area; (c) the method by itself can give only approximate but generally satisfactory results. Notwithstanding these elements of uncertainty, the importance of the decline of mortality is striking, as suggested by the fact that the number of survivors at 65 years of age increased by 24 per cent.

Different methods have been used in order to get from the incomplete abridged life table a fairly approximate measure of the expectation of life. The result is that in less than fourteen years the expectation of life at birth for Italian females may have increased by some 8 to 9 years, from the 57.5 years of the 1935-1937 life table to the 65-67 years of the 1949-1950 experience. It is worth while to note that, according to the more recent experience, the control of mortality in Italy appears to have almost reached the level of the most advanced Western countries.

In this connection it may be of interest to point out that, according to the usual characteristics of the control of mortality in Western populations, the order of importance of different causes of mortality has been changing. During the years 1936-1938, for instance, the most important causes of mortality appeared in the following order: diseases of the respiratory system, tuberculosis excluded (2,725 deaths per 1,000,000 persons), of the circulatory system (2,019), of the digestive system (1,730), of the nervous system and sense organs (1,690), infectious and parasitic diseases (1,673), senility (949), cancer and other malignant tumors (898). In 1948 the order was changed to the following: diseases of the circulatory system (2,108), of the respiratory system (1,400), of the nervous system and sense organs (1,389), cancer and other malignant tumors (1,049), infectious and parasitic diseases (1,044), diseases of the digestive system (990), senility (760) [e]. As the figures point out, not only has the order been changed but also the impact of the various diseases. It is perhaps interesting to note that some of the characteristic old evils have been very successfully checked (like typhus, pneumonia and bronchopneumonia, and tuberculosis) or practically eradicated (like malaria). Still some substantial progress, in comparison with other Western countries, has to be made in Italy in controlling infant mortality, particularly the diseases peculiar to the first year of life.

Marriage

Unfortunately a significant analysis of the recent trend in nuptiality of the Italian population is seriously limited because of the lack of data on the marriageable population. The last fifteen years have been peculiar in various respects. During this period the cohorts born during and after World War I have been entering the marriage age. Moreover, the girls of the big baby crop born in the early 'twenties, who were already handicapped by the relatively small number of males born during the late period of World War I, found themselves in a country at war during their most marriageable ages. After World War II these same girls suffered the competition of the younger cohorts.

The lack of equilibrium in the relevant sex ratios and the par-

ticular circumstances of the period must have introduced unusual features in the age-sex specific nuptiality rates calculated on the marriageable population as well as they did with the rates calculated on the total population. The consequences of these changes in terms of variations in the proportion married cannot be assessed; neither is it possible to pick up any significant trend in marriage habits. It may be of interest to note that a comparison of the actual number of marriages of the 1940-1948 period with regard to a hypothetical number of marriages calculated on the maintenance of the crude rates of 1938-1939 shows a loss of about 5 per cent with respect to the hypothetical number. This loss was not made up in the following three years, which show a lower nuptiality than in 1938-1939.

In connection with what has been said previously as to the standardization by age in the figures presented in Table 3, it should be noted that the average age at marriage for bachelors and spinsters (who account approximately for 94 and 97 per cent of the total number of marriages of males and females, respectively) has been almost steadily increasing, at least since 1925. In recent years bachelors have married at least one year older on the average than in the late 'thirties; so have the spinsters. However, this mean age is a synthetic measure that does not tell the whole story. The distribution by age also has importance for the resulting marital fertility of the cohort of marriages. In fact, notwithstanding the higher average age at marriage, some cohorts present an unusual percentage of marriages of young people (for instance the cohort of 1944, as previously mentioned) particularly apt to have higher fertility [f].

The figure presented in Table 3 for 1951 of 2,530 legitimate births (including stillbirths), out of a constant number of 1,000 marriages celebrated each year, deserves more careful consideration. In fact, it is so low that it raises some doubt about its being sufficient to ensure replacement. No data are available for the more recent years for a refined computation of a reproduction rate, particularly because of the lack of the necessary data on nuptiality. However, it is possible to have at least a rough idea of the situation in a very simple way. A stock of 2,530 legitimate births corresponds to 1,190 live female births (according to the percentage of stillbirths and to the masculinity of births of 1950). The average age at marriage for females in recent years is slightly over 25.5 years. The percentage of spinsters in the total female population at 70 years of age was above 10 per cent both in 1931 and in 1936 at the date of the censuses. According to the tables constructed by Somogyi [g], which are based on the experience of 1930-1932, a period of presumably low nuptiality owing to the depression, the percentage of spinsters at 70 is above 16 per cent.

According to the abridged life table shown in Table 8, 1,062 girls will reach the age of 25.5 out of 1,190 female live births. At least 10 per cent of these girls probably will never marry; so that 2,530 legitimate births will produce at most 956 new marriages, or 5 per cent, roughly, less than what is needed in order to ensure replacement. It is not probable that such a deficit in legitimate fertility can be filled by illegitimate births, which in Italy are relatively few (slightly more than 3 per cent of the total live births in the most recent years).

It seems unnecessary to state here all the uncertainties inherent in the result that has been reached with regard to the present replacement performance of the Italian population, whatever meaning one may wish to put on the computation of a reproduction rate based on the tem-

porary experience of a very short period. Some remarks, however, may be useful.

The calculated basic figure of 2,530 legitimate births in 1951 not only represents a result of the fertility behavior of the married persons in that year, but it is also affected by such factors as the past fertility, the incidence of mortality, the migratory balance, and the frequency of legal separations experienced in the past by the relevant marriage cohorts still in a position to have children in 1951. Mortality, in this respect, is the most important factor. Certainly, as the abridged life table has clearly shown, marriages celebrated in 1951 will last longer, owing to the reduced mortality, than the marriages of the previous years. They will also have more children during the course of the marital life of the couples than the surviving married persons had in 1951, if the "true" specific rates by marriage duration, calculated on the survivors, are maintained in the future. How many more, it is not easy to determine, because the cohorts on which the rates of 1951 were obtained have been passing through different and changing mortality conditions. It seems, however, that it can be safely assumed that the difference would be only slight, because the group of marriages most important in determining the size of childbearing in a particular year is the group of marriages of very short duration, say under 5 years of marriage duration, which account for almost one half of the adjusted total number of births (see Table 6). It is unlikely that in a short period the survivorship of persons in the reproductive ages has changed greatly. On the other hand, the figure of 10 per cent remaining spinsters throughout life is probably an underestimation of spinsterhood.

A safe conclusion seems to be that in 1951 the Italian population may have reached the critical point in the matter of replacement.

Regional Differentials

The previous discussion refers to the experience of the whole Italian population. The regional variations in recent demographic behavior deserve some comment, too. Italy presents in fact striking differences in the demographic situation among the various geographic subdivisions.

Italy is divided into 19 "regioni" (regions), grouped usually in four major subdivisions: Northern Italy (8 regions), Central Italy (4), Southern Italy (5), Insular Italy (2). The different historical background and socio-economic characteristics of these various parts of the nation need no description here. From the demographic point of view it should be noted, first of all, that the age structure of the population differs markedly from region to region. In Northern Italy, some of the regions, for example, Piemonte and Liguria, showed a typical pentagonal shape in their age pyramids, according to the results of the 1936 census [h]. The case was the same for Toscana, for instance, in Central Italy. At that date, many regions of Southern and Insular Italy presented a markedly triangular shape, for example, Lucania, Calabria, Puglie, and Sardegna. Such differences may have been further accentuated during the last fifteen years.

This difference in age structure should be kept in mind when one studies the figures presented in Table 9. These are the usual crude vital statistics rates relating to the four major geographic subdivisions, within the present boundaries, for the quinquennial periods 1936-1940 and

Table 9

Regional Vital Statistics Rates: Italy, 1936-1950 1/

(Present area)

Geographical Subdivision	Per 1,000 Population					
	1936-40	1946-50	1950	1936-40	1946-50	1950
	Births			Deaths		
Northern Italy	19.9	17.2	15.5	13.0	11.1	10.2
Central Italy	21.3	18.5	16.5	12.3	9.7	8.9
Southern Italy	28.0	27.8	25.5	16.0	11.1	9.4
Insular Italy	27.2	25.4	23.9	14.9	10.8	9.6
	Natural Increase			Infant Deaths a/		
Northern Italy	6.9	6.1	5.3	88.5	62.3	52.8
Central Italy	9.0	8.7	7.6	77.1	57.7	46.4
Southern Italy	13.8	16.6	16.1	126.7	93.0	79.0
Insular Italy	12.4	14.5	14.3	118.9	83.6	74.0

a/ Per 1,000 live births.

1/ Source: Weighted averages computed from the quinquennial rates 1935-1940 published in Compendio Statistico Italiano, 1949-50, and from yearly rates for 1946-1950 presented in the 1951 issue of the same publication, by the Istituto Centrale di Statistica.

The weights are derived from the regional distribution of the de facto population on December 31, 1950.

1946-1950, and for 1950. The quinquennial averages are not very accurate, because of the lack of information about the de facto population within the present territory of each region. For averaging the rates of each subdivision and quinquennium the weights used were derived from the distribution of the de facto population at the end of 1950.

However, the difference between the rates of the various zones and the variations in time of the rates of any particular zone are significant enough for preliminary conclusions. One might notice, for instance, that the control of mortality must be on the whole as advanced in Southern and Insular Italy as it is in the Northern and Central parts. This is not the case for infant mortality, with obvious implications for fertility.

The decline in the birth rate since the prewar period is sharper in North and in Central Italy than in the other zones; how much of this difference can be explained in terms of different age and marital distributions of the relevant populations cannot be assessed.

The very much higher natural increase of the Southern and Insular regions will continue in the future to increase Southern and Insular Italy's proportion of the total Italian population. This change will probably be only partially checked by a heavier outward migratory balance from these zones.

Age Composition

Some of the modifications in the age structure of the Italian population deserve brief notice, owing to their obvious sociological as well as economic importance.

The proportion of old people has been continuously increasing: at the end of 1950 there were 1,711,000 males and 1,058,000 females over 55, that is 7.5 and 8.7 per cent, respectively, of the total population. These are not high percentages when compared with those in many other Western populations today. But they are bound to increase pretty sharply in the near future, particularly in the case of females.

A marked increase is shown between 1936 and 1950 both in relative and in absolute numbers, and for both sexes, in the people of productive ages, say between 15 and 65. The increase in the number of people aged 15-65 is higher than the total increase in Italian population since 1936. One might find in this very fact a partial explanation of the heavy mass unemployment and underemployment which has been a deeply felt plague in Italian life since the end of the war.

Migration

The migratory balance has not been a major factor in the demographic growth of Italian population during the recent past. Only a few figures will be considered here. During the period 1946-1951, the outward balance for migrations across the ocean, which account for almost all of the permanent emigration, is slightly above half a million people. More than fifty per cent of this figure is migration to one nation—Argentina. Other major directions are the United States, Venezuela, Canada, and Brazil. The emigration to Canada is a recent phenomenon, as is the emigration to Australia, owing to the agreement reached between Italy and the two governments for an assisted transfer of 100,000 Italians in a five-year period. The emigration to the United States, after the flow of war brides and of relatives of American citizens, has been, in the last few years, a few thousand above the annual quota of less than six thousand.

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FOOTNOTES

[a] A complete list of the missing data is given in an Appendix to Reference 3.

[b] What is called in this paper and in the tables "marriage duration" is in fact not the exact duration of the marriage but the difference between the year of the birth and the year of celebration of the marriage.

[c] It should be noted that in Tables 3-7 the data for 1943 and subsequent years relate to the present territory, whereas figures for years before 1943 refer to the prewar territory. However, it is

felt that the effects of this difference in area are not sufficient to invalidate significant comparisons of data before and after 1943. Likewise, it is felt that significant comparisons are possible even though the series are affected by minor inaccuracies due to the lack of data mentioned in Footnote [a] and to the fact that births of unknown parity and marriage duration (or both) had to be arbitrarily distributed; this was done according to the proportional distribution of births of specified parity and year of marriage.

[d] Reed, Lowell J., and Merrell, Margaret. "A short method for constructing an abridged life table." The American Journal of Hygiene, Vol. 30, No. 2, September, 1939.

[e] See also Reference 1. A detailed account of the trend of mortality by cause of death since the beginning of the century is given in the introductory note to Reference 2.

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The editors acknowledge the generous cooperation of the staff of the Library of Congress, and especially that of the Census Library Project, in making the numerous excellent facilities of the Library available to them. The coverage of the official publications of national governments is assisted materially by the continuing cooperation of the Inter American Statistical Institute and the Office of the Coordinator of International Statistics, Bureau of the Census.

Abstracts contributed by individuals other than the editors are acknowledged by placing the name of the contributor in brackets at the end of the entry. If a translation, abstract, or review is taken from a secondary published source, that source is also cited in brackets. The titles of books and articles not available to the editors and not covered by available reviews or abstracts are marked with the symbol °. The following abbreviations are used for common bibliographic sources:

B.A.	-	Biological Abstracts.
B.A.D.P.E.S.	-	Bulletin Analytique de Documentation Politique, Economique et Sociale Contemporaine.
C.G.P.	-	Current Geographical Publications.
C.L.M.L.	-	Current List of Medical Literature (U.S. Army. Medical Library).
I.L.R.	-	International Labour Review.
P.A.	-	Psychological Abstracts.
P.A.U.	-	Pan American Union. Review of Inter-American Bibliography.
R.I.I.S.	-	Revue de l'Institut International de Statistique.
U.N.H.L.	-	United Nations Headquarters Library. New Publications.
U.S.B.C.	-	U. S. Bureau of the Census. Monthly Accessions List.

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VIII: CHARACTERISTICS

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2073 U. S. Bureau of the Census.
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Seligman, Ben B. The American Jew: some demographic features, pp. 3-52.
Cohen, Eli E. Economic status and occupational structure, pp. 53-70.
Unsigned. Jewish population estimates of selected cities, pp. 71-73.
Liskofsky, Sidney. Immigration statistics, pp. 74-76.
Shapiro, Leon, and Sapir, Boris. World Jewish population, pp. 245-250.
There are also materials on displaced persons, migration, etc.

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Seligman, Ben B. Jewish population estimates of United States communities, pp. 17-21.
Shapiro, Leon. World Jewish population, pp. 195-200.
Hyman, Abraham S. Displaced persons [Central Europe], pp. 305-312.
Tibbon, Dov. Immigration statistics [Israel], pp. 397-404.

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2087 Perlo, Victor.
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2093 Czekanowski, Jan.
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2095 Gedda, Luigi.
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2096 Glasser, F. B., et al.
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2098 Hunt, Edward E., Jr.
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2099 Kallmann, Franz J.
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Konnyu, Leslie - 2082.
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Schwarz, Arnold - 1790.
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Sovani, N. V. - 2124.
Spengler, Joseph J. - 1686, 1689.
Spiegelman, Mortimer - 1883.
Spielvogel, Samuel - 2163.
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Stone, Abraham - 2125.
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Yerushalmy, J. - 1735.
Zimmermann, Erich W. - 2040.

STATISTICS

Table 1. Additional Data on Population Growth /a /1

(Notes on page 333)

Country /b	Last Census			Last Official Estimate /c			Annual Post-Censal Per Cent Rate of Growth/d
	Date		Population (thousands)	Date		Population (thousands)	
North America							
U.S., Continental /e /2 ...	4/'50		150,697	2/'52		154,795	-
El Salvador	6/'50		* 1,859	7/'51	D3	1,920	-
Guatemala	4/'50		2,787	7/'51	A3	2,887	-
Jamaica	1/'43	J/	1,237	12/'51	C3	1,444	-
Nicaragua	5/'50	J/	* 1,053	7/'51	C4	1,088	-
South America							
Argentina	5/'47		15,894	12/'51	C4	17,856	2.54
Bolivia	9/'50		3,019	9/'51		3,054	-
Peru /f	6/'40		7,023	7/'51	D5	8,558	-
Europe							
Belgium /J	12/'47		8,512	3/'52	C2	8,711	0.54
Finland /g	12/'50		* 4,029	3/'52	R0	4,075	-
Switzerland /J	12/'50		4,715	4/'52	A2	4,806	-
Yugoslavia	3/'48	h/	15,772	12/'51	AN	16,441	1.11
Africa							
Angola (Port.)	12/'50		4,112	12/'51	A5	4,149	-
Gold Coast (Br.)	1-2/'48		3,736	7/'51	AN	3,929	-
Tunisia (Fr.)	11/'46		3,231	7/'51	BN	3,500	1.71
Oceania							
New Zealand /i /3	4/'51		1,939	3/'52		1,985	-
Europeans /3	4/'51		1,824	3/'52		1,865	-
Maoris /3	4/'51		116	3/'52		119	-

Table 2. Additional Vital Rates /a /1

(Notes on page 334)

Country	Code /b	Year	Rate per 1,000 Population		
			Marriage	Birth	Death
North America					
Jamaica (Ex. Depend.)	N	1951	-	33.9	12.1
South America					
Colombia	U	1950	-	36.7	14.3

Table 2. Additional Vital Rates (Continued)

Country	Code /b	Year	Rate per 1,000 Population		
			Marriage	Birth	Death
Europe					
Ireland	C	1951	5.4	21.2	14.3
Yugoslavia	C	1951	-	* 27.0	15.4
Asia					
Ceylon		1951	6.9	40.6	12.9
Malaya					
Federation of	C	1951	-	43.6	15.3
Singapore	N	1951	-	46.2	11.9
Philippines	U	1951	-	22.7	9.1
Portuguese India	U	1951	-	30.8	16.5
Africa					
Egypt	N	1949	-	41.6	20.5

Table 3. Birth, Death, and Infant Mortality Rates for Geographic Divisions of the United States /a /1

(Notes on page 334)

Area	Vital Rates					
	1936-40	1941-45	1946	1947	1948	1949
	Live Births per 1,000 Population					
United States	17.3	20.2	23.3	25.8	24.2	24.0
New England	15.0	19.5	22.0	24.2	21.7	20.9
Middle Atlantic	14.9	18.9	21.7	23.7	21.3	20.8
East North Central	16.5	20.1	22.7	25.1	23.4	23.6
West North Central	17.0	20.6	23.7	26.0	24.5	24.2
South Atlantic	20.4	24.4	25.8	27.7	26.5	26.1
East South Central	21.4	25.2	27.6	29.3	28.1	27.8
West South Central	19.1	24.1	25.7	26.9	26.0	26.1
Mountain	21.3	24.9	27.2	30.1	29.1	28.6
Pacific	15.0	20.6	22.5	24.5	23.3	23.5
	Deaths per 1,000 Population					
United States	11.0	10.6	10.0	10.1	9.9	9.7
New England	11.7	11.8	11.3	11.1	10.9	10.5
Middle Atlantic	11.2	11.7	11.0	11.0	10.7	10.3
East North Central	11.1	11.0	10.3	10.5	10.1	10.0
West North Central	10.5	10.8	10.6	10.8	10.4	10.3
South Atlantic	11.0	9.6	8.9	9.1	9.1	9.0
East South Central	10.8	9.8	9.2	9.4	9.4	9.3
West South Central	9.8	9.0	8.4	8.6	8.6	8.5
Mountain	11.0	10.2	9.7	9.8	9.7	9.2
Pacific	11.6	10.5	9.6	9.5	9.5	9.5

Table 3. Birth, Death, and Infant Mortality Rates for Geographic Divisions of the United States (Continued)

Area	Vital Rates					
	1936-40	1941-45	1946	1947	1948	1949
	Infant Deaths per 1,000 Live Births					
United States	51.5	40.8	33.8	32.2	32.0	31.3
New England	43.4	35.2	31.8	28.7	27.1	25.7
Middle Atlantic	43.8	35.1	30.5	29.3	27.6	27.2
East North Central	43.7	36.0	31.2	29.9	29.1	28.1
West North Central ...	44.1	35.2	31.0	29.9	28.2	27.0
South Atlantic	60.7	50.0	37.8	35.5	35.4	35.8
East South Central	59.6	48.4	38.5	36.9	38.2	40.3
West South Central ...	62.9	47.8	37.7	37.6	40.7	38.7
Mountain	68.8	52.8	42.1	39.7	42.0	38.9
Pacific	44.3	34.1	30.8	28.7	28.0	26.6

NOTES TO TABLES 1-3

Table 1. Additional Data on Population Growth

* Provisional

J/ De jure population.

a/ Presents only data received more recently than those given in Population Index 18(3). For more detailed information regarding coverage and qualifications of data, see Statistics Section of 18(3).

b/ Includes only those countries in which the last census was taken in 1920 or later and showed a population of 500,000 or more. Unless otherwise noted, the figures refer to the present-in-area or de facto population within present boundaries.

c/ The type of estimate is given for data taken from United Nations publications and is from Table 1 of the United Nations Demographic Yearbook, 1951. Letters indicate the nature of the basic data used in preparing the estimates; numerals indicate the methods of adjustment to current data.

Basic data are classified as follows:

- R - continuous population register
- A - census enumeration made since 1 Jan. 1948
- B - at least two censuses taken between 1 Jan. 1935 and 1 Jan. 1948
- C - at least two censuses taken between 1 Jan. 1900 and 1 Jan. 1948
- D - one census taken between 1 Jan. 1900 and 1 Jan. 1948

Methods of adjustment are classified as follows:

- 0 - basic data secured annually, requiring no adjustment
- 1 - substantially accurate birth, death and migration data
- 2 - substantially accurate birth and death data; deficient or no migration data
- 3 - birth and death data of undetermined reliability
- 4 - birth and death data stated to be deficient
- 5 - mathematical interpolation or extrapolation of two or more population counts

N - information on nature of data and/or method of adjustment not known.

d/ Computed by the formula: $r = [\log_e(P_1/P_0)]/t$.

e/ Total population residing in continental United States, excluding armed forces overseas. The census figure including an estimate for armed forces overseas is given as 151,132,000, and the estimate for July 1, 1952 as 157,015,000.

f/ Including 465,000 estimates for omissions at the census and 350,000 for jungle inhabitants.

g/ Finnish nationals in Finland, includ-

Table 1. Additional Data on Population Growth (Continued)

ing merchant seamen at sea. In regard to the estimate, it should be noted that records of change of residence and emigration are imperfect.

h/ Excluding enemy prisoners of war.

i/ Excluding armed forces overseas.

1/ Unless otherwise noted, figures were taken from: United Nations Statistical Office. Statistical Papers, Series A, Vol. 4, No. 3, July, 1952; or Monthly Bulletin of Statistics 6(9):1-4. Sept., 1952.

2/ U. S. Bureau of the Census. Current Population Reports, Series P-25, No. 61. Aug. 21, 1952.

3/ New Zealand. Census and Statistics Department. Monthly Abstract of Statistics, June, 1952, p. 12.

Table 2. Additional Vital Rates

* Provisional.

a/ Presents only data received more recently than those given in Population Index 18(3).

b/ The code is given for data taken from United Nations publications and is from Tables 7, 14, and 25 of the United Nations Demographic Yearbook, 1951. Rates derived from data stated to be complete or virtually complete are coded "C"; those derived from data stated to be affected by irregularities in registration or incomplete coverage are coded "U"; those for which there is no information on reliability of data are coded "N."

1/ Unless otherwise noted, figures were taken from: United Nations Statistical Office. Statistical Papers, Series A, Vol. 4, No. 3, July, 1952; or Monthly Bulletin of Statistics 6(9):5-10. Sept., 1952.

Table 3. Birth, Death, and Infant Mortality Rates for Geographic Divisions of the United States

a/ All rates are based on data by place of occurrence. For 1940-1946, birth rates for the United States are based on total population, including armed forces overseas; for each geographic division, on civilian population in area; rates for 1947, 1948, and 1949 are based on total population present in area. For 1940-1949, death rates for the United States and for each geographic division are based on total population in area, excluding armed forces overseas; deaths, 1940-1949, are exclusive of deaths among armed forces overseas.

1/ U. S. National Office of Vital Statistics. Vital Statistics of the United States, 1949. Part I. Natality, mortality, marriage, divorce, morbidity, and life table data for the United States. Washington, 1951. Tables I, II, and III, pp. 2-7.

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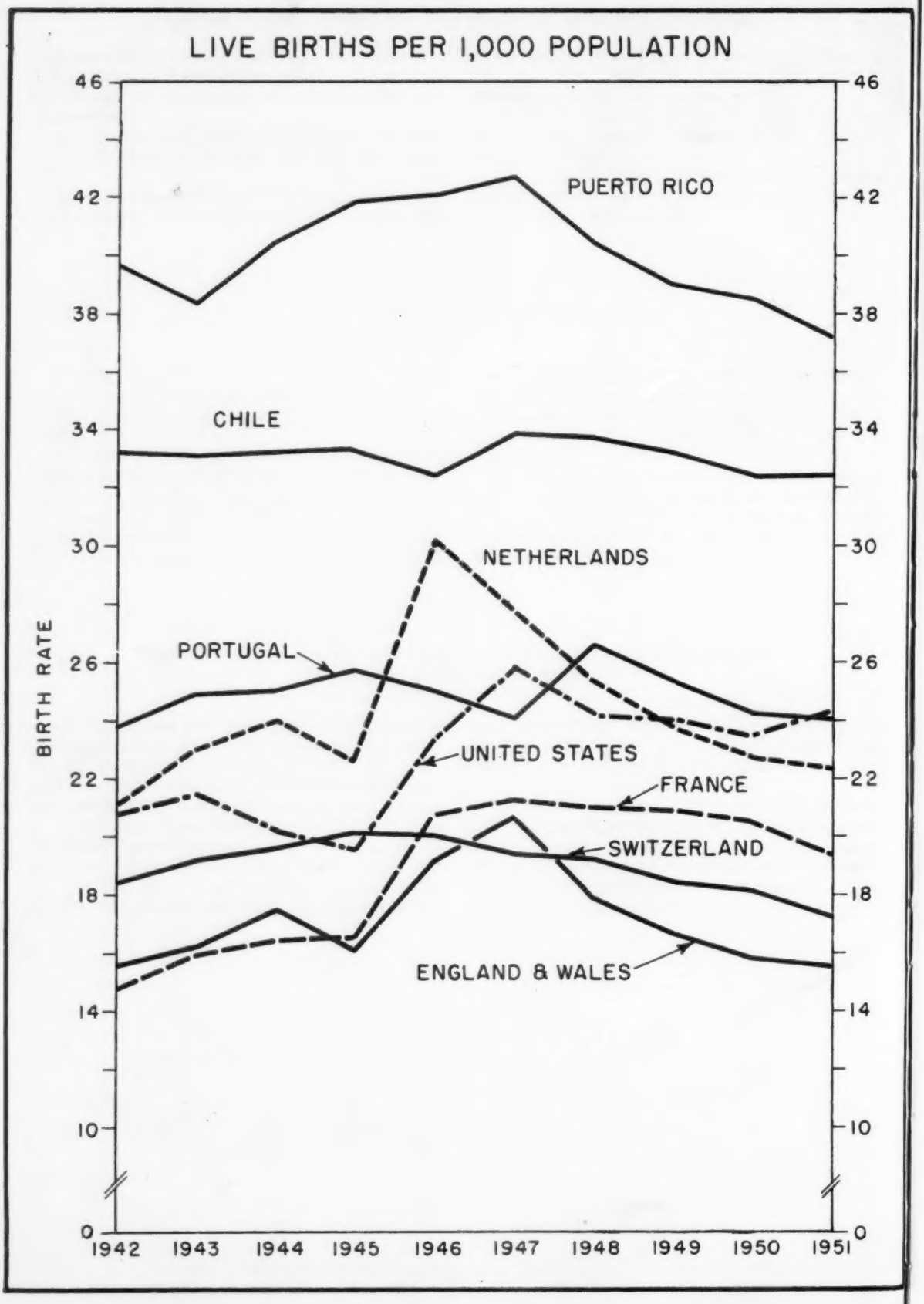
LIVE BIRTHS PER 1,000 POPULATION
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46
42
38
34
30
26
22
18
14
10
0
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
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CHILE
NETHERLANDS
PORTUGAL
UNITED STATES
FRANCE
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ENGLAND & WALES

POPULATION INDEX

EDITORS: Frank W. Notestein
Irene Barnes Taeuber
Louise K. Kiser

VOL. 18 1952

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